Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-01-19-25** **Date: 19-07-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11
Agency	:	H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97
Customer Reference	:	BBMP/EE/BTP/WO/244/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-07-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-01-19-25** **Date: 19-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Note:

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Technical Manager

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TEST REPORT OF FINE AGGREGATE

Date: 19-07-21

Lab ID : CP-2022-01-19-25
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11

Agency : H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97

Customer's Reference : BBMP/EE/BTP/WO/244/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-07-21
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 16-07-21
Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-01-19-25** **Date: 19-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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QC ABSTRACT

NAME OF WORK: Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
3	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
4	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum		2	2
5	PCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum		2	2
6	M.S Block Pipe	Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
7	Structural Steel	Weight/Meter	One Test		1	1
		Yeild stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-01-19-25** **Date: 19-07-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11
Agency	:	H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97
Customer's Reference	:	BBMP/EE/BTP/WO/244/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-07-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Authorized Signatory
Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-01-19-25** **Date: 19-07-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11
Agency	:	H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97
Customer's Reference	:	BBMP/EE/BTP/WO/244/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-07-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-01-19-25** **Date: 30/07/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11
Agency	:	H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97
Customer's Reference	:	BBMP/EE/BTP/WO/244/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	23/07/2021	30/07/2021	151.71 X 151.60 X 149.44	22998	8.638	282.2	12.3	12.2
2	PCC	M15	23/07/2021	30/07/2021	150.22 X 150.59 X 150.00	22622	8.150	280.2	12.4	
3	PCC	M15	23/07/2021	30/07/2021	151.96 X 150.75 X 149.12	22908	8.551	277.0	12.1	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-01-19-25** **Date: 20/08/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11
Agency	:	H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97
Customer's Reference	:	BBMP/EE/BTP/WO/244/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/07/2021	20/08/2021	149.99 X 149.25 X 151.92	22386	8.711	390.0	17.4	17.6
2	PCC	M15	23/07/2021	20/08/2021	150.69 X 150.64 X 150.76	22701	8.855	399.3	17.6	
3	PCC	M15	23/07/2021	20/08/2021	151.11 X 149.52 X 150.11	22594	8.204	399.7	17.7	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-01-19-25** **Date: 16/08/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11

Agency : H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97

Customer's Reference : BBMP/EE/BTP/WO/244/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	09/08/2021	16/08/2021	150.46 X 149.70 X 150.73	22523	8.227	408.8	18.1	18.4
2	PCC	M20	09/08/2021	16/08/2021	149.73 X 150.09 X 151.04	22473	8.207	411.0	18.3	
3	PCC	M20	09/08/2021	16/08/2021	149.53 X 149.73 X 149.13	22389	8.815	419.7	18.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-01-19-25** **Date: 06/09/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11

Agency : 11 Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97

Customer's Reference : BBMP/EE/BTP/WO/244/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M20	09/08/2021	06/09/2021	150.69 X 149.43 X 149.69	22518	8.361	532.8	23.7	23.1
2	PCC	M20	09/08/2021	06/09/2021	151.56 X 149.98 X 150.83	22731	8.842	511.3	22.5	
3	PCC	M20	09/08/2021	06/09/2021	150.16 X 149.36 X 149.33	22428	8.225	516.2	23.0	

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Technical Manager

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TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2022-01-19-25** **Date: 18-07-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11
Agency	:	H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97
Customer's Reference	:	BBMP/EE/BTP/WO/244/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-21
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	16-07-21

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	285	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	478	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24.5	Min 23%	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Technical Manager

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TEST RESULTS ON STRUCTURAL STEEL

Lab ID : **CP-2022-01-19-25** **Date: 19-07-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11

Agency : H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97

Customer's Reference : BBMP/EE/BTP/WO/244/2016-17

Sourse of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-21

Type/ Description of Sample* : Column - ISLB 100*50

Reference to BIS codes : IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.

Date of testing : 18-07-21

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	8.1 Kg /m	–	
2	Yeild Stress	272 N/mm^2	240 N/mm^2	
3	Tensile Strength	462 N/mm^2	410 N/mm^2	
4	Elongation Percentage	18%	Min 15%	
5	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

AEE (VRP) SD

CIVIL Pro Si..... Date..... BANGALORE

FOR CIVIL Pro
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

TEST RESULTS ON STRUCTURAL STEEL

Lab ID : **CP-2022-01-19-25** **Date: 19-07-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11

Agency : H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97

Customer's Reference : BBMP/EE/BTP/WO/244/2016-17

Sourse of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-21

Type/ Description of Sample* : RHS 40X20X2.9Th

Reference to BIS codes : IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.

Date of testing : 18-07-21

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	2.47 Kg /m	–	
2	Yeild Stress	266 N/mm^2	240 N/mm^2	
3	Tensile Strength	473 N/mm^2	410 N/mm^2	
4	Elongation Percentage	17%	Min 15%	
5	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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FOR CIVIL Pro

CIVIL Pro Sl..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

****End of Report****

TEST RESULTS ON STRUCTURAL STEEL

Lab ID : **CP-2022-01-19-25** **Date: 19-07-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11

Agency : H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97

Customer's Reference : BBMP/EE/BTP/WO/244/2016-17

Sourse of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-21

Type/ Description of Sample* : RHS 100X40X3.2Th

Reference to BIS codes : IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.

Date of testing : 18-07-21

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	6.74 Kg /m	–	
2	Yeild Stress	268 N/mm^2	240 N/mm^2	
3	Tensile Strength	472 N/mm^2	410 N/mm^2	
4	Elongation Percentage	18%	Min 15%	
5	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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FOR CIVIL Pro

P.KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

CIVIL Pro Sig... Date..... BANGALORE

****End of Report****

TEST RESULTS ON STRUCTURAL STEEL

Date: 19-07-21

Lab ID	:	**CP-2022-01-19-25**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of borewells, providing lighting to pathway and other developmental works to Lakkappa layout park (Singapua) in ward no. 11
Agency	:	H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyarnaypura, Bangalore - 97
Customer's Reference	:	BBMP/EE/BTP/WO/244/2016-17
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-21
Type/ Description of Sample*	:	ISLB 100*50 @ 8.1 Kg/m
Reference to BIS codes	:	IS 2062: 2011, IS:1608-2005(RA 2011), IS 1599-2012.
Date of testing	:	18-07-21

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	8.12 Kg /m	–	
2	Yeild Stress	272 N/mm^2	240 N/mm^2	
3	Tensile Strength	462 N/mm^2	410 N/mm^2	
4	Elongation Percentage	18%	Min 15%	
5	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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FOR CIVIL Pro

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

CIVIL Pro Sl ... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES